JC10 Rec'd PCT/PTO 2 0 MAY:02005-2005)

Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER 700355-052696

SAPPLIEATION MG. (If known, see 37 CFR 1.5)

PCT/US2003/038186 25 November 2003 (25.11.2003) 25 November 2002 (25.11.2002) TITLE OF INVENTION ELECTRO-OPTICAL NUCLEIC ACID-BASED SENSOR ARRAY AND METHOD FOR DETECTING ANALYTES				
DETECTING ANALYTES				
DETECTING ANALYTES APPLICANT(S) FOR DO/EO/US TUFTS UNIVERSITY; WHITE, Joel E. and KAUER, John S.				
WITTE, Joer E. and RACER, Joint S.				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.				
This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.				
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.				
The US has been elected (Article 31).				
A copy of the International Application as filed (35 U.S.C. 371(c)(2))				
a. is attached hereto (required only if not communicated by the International Bureau).				
b. has been communicated by the International Bureau.				
c. $\overline{\mathbf{X}}$ is not required, as the application was filed in the United States Receiving Office (RO/US).				
An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).				
a. is attached hereto.				
b. has been previously submitted under 35 U.S.C. 154(d)(4).				
Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))				
a. are attached hereto (required only if not communicated by the International Bureau).				
b. have been communicated by the International Bureau.				
c. have not been made; however, the time limit for making such amendments has NOT expired.				
d. have not been made and will not be made.				
An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).				
An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).				
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).				
Items 11 to 20 below concern document(s) or information included:				
11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.				
An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.				
13. X A preliminary amendment.				
An Application Data Sheet under 37 CFR 1.76.				
A substitute specification.				
16. A power of attorney and/or change of address letter.				
A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.				
18. A second copy of the published International Application under 35 U.S.C. 154(d)(4).				
A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).				
20. X Other items or information: See Attachment 1				

USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2



JC2U FEC & PET/PTO 2 O MAY FRAGO (Rev. 02-2005)
Approved for use through 3/31/200. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPICATION 15.35 7 48 37 CFR 1.5) INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER PCT/US2003/038186 700355-052696 CALCULATIONS The following fees have been submitted PTO USE ONLY 21. 🔯 Basic national fee \$300 300.00 22. Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of 200.00 All other situations.....\$200 Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an 100.00 International Searching Authority......\$100 All other situations.....\$500 600.00 TOTAL OF 21, 22 and 23 = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. **Total Sheets** Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number) -10 /50 = 90 0.00 - 100 = x \$250 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest ' \$ 130.00 claimed priority date (37 CFR 1.492(h)) **CLAIMS NUMBER FILED** NUMBER EXTRA \$ **RATE** \$ Total claims -20 =x \$50 550.00 11 31 Independent claims - 3 = x \$200 \$ 400.00 2 MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$360 \$ 360.00 **TOTAL OF ABOVE CALCULATIONS =** 2,040.00 Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. 1,020.00 1.020.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest 0.00claimed priority date (37 CFR 1.492(i)). 1,020.00 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied 0.00 by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property TOTAL FEES ENCLOSED = 1,020.00 Amount to be \$ refunded: Amount to be \$ charged: a X 1,020.00 to cover the above fees is enclosed. A check in the amount of \$ Please charge my Deposit Account No. in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. ___50-0850 __. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. BENDIALS. CORRESPONDENCE TO: NIXON PEABODY LLP 100 Summer Street David S. Resnick Boston, MA 02110-2131 NAME US REGISTRATION NUMBER

JC20 Rec'd PCT/PTO 2 0 MAY 2005,

Addendum

Attachment 1

Copy - WO 2004/048937 A3 Cover Sheet; Copy - Form PCT/IB/308; Copies - PCT/ISA/220 & 210; Express Mail Certificate - EV 653000785 US; Check - \$1,020.00; Form 1449; References A1 & C1; Statement of Limited Recognition; Return Receipt Postcard.



10/535748 JG20 Nec'd PCT/PTO 2 0 MAY 2005

Practitioner's Docket No. 700355-052696

PATENT

IN THE UNITED STATES RECEIVING OFFICE

International Application Number	International Filing Date	International Earliest Priority Date
PCT/US2003/038186	25 November 2003	25 November 2002
	25.11.03	25.11.02

TITLE OF INVENTION:

ELECTRO-OPTICAL NUCLEIC ACID-BASED SENSOR

ARRAY AND METHOD FOR DETECTING ANALYTES

APPLICANT FOR DO/US:

TUFTS UNIVERSITY

INVENTORS FOR DO/US:

WHITE, Joel E. and KAUER, John S.

U.S. SERIAL NO.:

TO BE ASSIGNED

VERIFIED CERTIFICATION OF EXPRESS MAILING DATE (INTERNATIONAL APPLICATION (37 C.F.R. section 1.10(c))

I declare that, on May 20, 2005, I deposited, with the United States Postal Service, in an envelope "Express Mail, Post Office to Addressee," bearing Label Number EV 653000785 US, addressed to the "MAIL STOP PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450," and having an express mail certification that I executed, the following papers:

- 1. Transmittal Letter to the U.S. Receiving Office Concerning a Filing Under 35 U.S.C. 371 & Addendum in duplicate (6 pp.);
- 2. Application Data Sheet (3 pp.);
- 3. Preliminary Amendment (8 pp.);
- 4. Form PCT/IB/308 (1 pg.);
- 5. Published PCT WO 2004/048937 A3 First Page (1 pg.);
- 6. Information Disclosure Statement (2 pp.);
- 7. Form 1449 (1 pg.);
- 8. References A1 & C1;
- 9. International Search Report Form PCT/ISA 210 & Annexes (6 pp.);
- 10. Statement of Limited Recognition Under 37 CFR § 10.9(b) Leena H. Karttunen (1 pg.);
- 11. Check \$1,020.00;
- 12. Return Receipt Postcard.

A copy of these papers from the file of this application is attached.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

Date: 5/20 . 2005

Nicole M. Aguirre

(type or print name of person certifying)